ABSTRACT

The present invention provides an apparatus for effectively heating a green tire by generating heat to a metal member embedded therein using electromagnetic induction, to complete a heating formation of a green tire in a sufficiently short time. Particularly, in the thick portion of the green tire which is hard to rise temperature, the efficiency of heat generation due to electromagnetic induction is increased by effectively concentrating high frequency magnetic field on the metal member embedded therein.

The apparatus for heating a green tire comprises a local heating coil for forming high frequency magnetic field along a portion of extending direction of a metal member, a high frequency power supply for supplying high frequency power to the local heating coil, and a moving means for moving the local heating coil relatively in the extending direction of the metal member.

Fig. 28

Fig. 1	keeping prod	cess form	ning process		
	vulcanizing p	rocess high	frequency pov	ver supply	
Fig. 2	forming process keeping process				
	vulcanizing process				
Fig. 3	vulcanizing process				
	keeping process				
	forming process				
transport a tire having completed the vulcanization to later process					
transport a holding mechanism to a forming process					
Fig. 4					
Fig. 5	$ m N_2~gas$				
Fig. 6	high frequency power supply				
Fig. 7	Fig. 8(a)	Fig. 8(b)	Fig. 9(a)	Fig. 9(b)	
Fig. 10(a)	Fig. 10(b) high frequency power supply				
Fig. 11(a)	Fig. 11(b)	11(b) high frequency power supply			
Fig. 12(a)	Fig. 12(b)	high frequency power supply			
Fig. 13(a)					
Fig. 13(b)	driver voltage detector inverter rectify		rectifying circuit		
Fig. 14(a)	Fig. 14(b)	Fig. 15(a)	Fig. 15(b)		
Fig. 16(a)	Fig. 16(b)	Fig. 17(a)	Fig. 17(b)		
Fig. 18(a)	Fig. 18(b)	Fig. 19			
Fig. 20(a)	Fig. 20(b)	Fig.20(c)	Fig.20(d)		
Fig. 21	Fig. 22	Fig. 23	Fig. 24	Fig. 25	
Fig. 26(a)	Fig. 26(b)	Fig. 26(c)	Fig. 26(d)		
Fig. 27	belt edge	tread center			

coil side tire side